

ABSTRACT OF THE DISCLOSURE

A juncture and method for changing direction of fuel flow in a high pressure fuel injection system such as a common rail and/or a fuel pump, the juncture comprising a body, a first passage formed in the body having a first diameter and a longitudinal axis extending therethrough, the first passage including a groove positioned along a portion of the longitudinal axis, and a second passage formed in the body having a second diameter, a central axis extending therethrough, and an opening, the opening of the second passage being provided in the groove of the first passage to allow fluidic communication between the second passage and the first passage so that stresses at the juncture caused by high pressure fuel changing direction of flow is reduced.